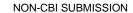


Part I GENERAL INFORMATION Conf	inued		
Section B CHEMICAL IDENTITY INFORMATION Continued			
Impurities (a) - Identify each impurity that may be reasonably anticipated to be present in the chemical subpurpose. Provide the CAS Registry Number if available. If there are unidentified impurities, (b) - Estimate the maximum weight % of each impurity. If there are unidentified impurities, estimate the maximum weight % of each impurity.	enter "unidentified."		cial
Impurity (a)	CAS Registry Number (a)	Maximum Percent % (b)	Confi- dential
	(α)	(5)	
	10		
	5		
•.0)		
Mark (X) this box if the data continues on the next page.			
Enter Attachment filename for Part I, Section B, 3.			
Synonyms - Enter any chemical synonyms for the new chemical identified in subsection 1 or 2.			
Enter Attachment filename for Part I, Section B, 4.			
5. Trade identification - List trade names for the new chemical substance identified in subsection 1 or 2			
Enter Attachment filename for Part I, Section B, 5.			
6. Generic chemical name - If you claim chemical identify as confidential, you must provide a generic n specific chemical identity of the new chemical substance to the maximum e Substance Inventory, 1985 Edition, Appendix B for guidance on developing	xtent possible. Refer		
Enter Attachment filename for Part I, Section B, 6.			
7. Byproducts - Describe any byproducts resulting from the manufacture, processing, use, or disposal of CAS Registry Number if available.			
Byproduct (1)		stry Number (2)	Confi- dential
Mark (X) this box if the data continues on the next page.	<u> </u>		





Part I GENERAL INFORMATION Continued												
Section C PRODUCTION, IMPORT, AND USE INFORMATION:												
The information on this page refers to consolidated chemical number(s): 1 2 3 4 5 6												
Mark (X) the "Confidential" box next to any item you claim as confidential. 1. Production volume Estimate the maximum production volume during the first 12 months of production. Also estimate the maximum production volume for any consecutive 12-month period during the first three years of production. Estimates should be on 100% new chemical substance basis. For a Low Volume Exemption application, if you choose to have your notice reviewed at a lower production volume than 10,000 kg/yr, specify the volume and mark (x) in the binding box. If granted, you are bound to this volume.												
Maximum first 12-month production (kg/yr) (100% new chemical substance basis)	t 12-month production (kg/yr) Maximum 12-month production (kg/yr) Confidential Binding Option											
Enter Attachment filename for Part I, Section C										CBI		
 2. Use Information You must make separate confidentiality claims for the description of the category of use, the percent of production volume devoted to each category, the formulation of the new substance, and other use information. Mark (X) the "Confidential" Box next to any item you claim as confidential. a. (1)Describe each intended category of use of the new chemical substance by function and application. (2)Mark (X) this column if entry column (1) is confidential business information (CBI). (3)Indicate your willingness to have the information provided in column (1) binding. (4)Estimate the percent of total production for the first three years devoted to each category of use. (5)Mark (X) this column if entry in column (4) is confidential business information (CBI). (6)Estimate the percent of the new substance as formulated in mixtures, suspensions, emulsions, solutions, or gels as manufactured for commercial purposes at sites under your control associated with each category of use. (7)Mark (X) this column if entry in column (6) is confidential business information (CBI). (8)Indicate % of product volume expected for the listed "use" sectors. Mark more than one box if appropriate. Mark (X) to indicate your willingness to have the use type provided in (8) binding. (9)Mark (X) this column if entry(ies) in column (8) is (are) confidential business information (CBI). 												
Category of use (1) (by function and application i.e. a dispersive dye for	СВІ	Binding Option	Prod uction	СВІ	% in Form-	СВІ		substar	(8)	ected pe	er use	СВІ
finishing polyester fibers)	(2)	Mark (X) (3)	(4)	(5)	ulation (6)	(7)	Site- limited	Con- sumer*	Industrial	Com- mercial	Binding Option	(9)
	C	9										
<u> </u>												
40												
* If you have identified a "consumer" use, please pro- consumer products. In addition include estimates of t the chemical reactions by which this substance loses	he conc	entration	of the new	chemic	al substar							
Mark (X) this box if the data continues on the next page												
b. Generic use If you claim any category description Read the Instruction Mar							nter a g	eneric d	escription	on of th	at categ	ory.
Enter Attachment filename for Part I, Section	•								CE			
3. Hazard Information Include in the notice a copy of data sheet, or other information which will be provide regarding protective equipment or practices for the substantial information you include.	d to any afe hand	person w	ho is reaso	nably li	ikely to be	expose	d to this	s substa	nce		Binding Mark	
Mark (X) this box if you attach hazard information	ation.											



NON-CBI SUBMISSION

Part II HUMAN EXPOSURE AND ENVIRONMENTAL RELEASE										
Section A INDUSTRIAL SITES CONTROLLED BY THE SUBMITTER Mark (X) the "Confidential" bo any item you claim as confidential of the submitted										
		consolidated chemical number(s			3	45	6			
you control. Importers do not requirements if there are furth instructions manual	have to con	ufacture, processing, or use op nplete this section for operation Il processing or use operations	s outside tl	ne U.S.; howe	ver, you ma	y still have repo	orting ee			
Operation description a. Identity Enter the id	entity of the	e site at which the operation will	occur.				Confi- dential			
Name										
Site address (number and street)			•							
City			County							
State			ZIP code	•						
sites on a continuation sheet,	and if any o	han one site, enter the number of the sites have significantly dif quested in this section for those	ferent prod	luction rates of	OF THE STREET					
Mark (X) this box if the	data continue	es on the next page.	♦	.6						
b. Type Mark (X)	ufacturing	Processing		U	lse					
c. Amount and Duration	Complete	* * *				_	Confi- dential			
1. Batch		Maximum kg/batch (100% new chemical substance)		Hours/batch	1	Batches/year				
2. Continuous		Maximum kg/day (100% new chemical substance)		Hours/day		Days/year				
d. Process description		4		o indicate your process descri						
pails, 55 gallon drum (2) Provide the identity, materials and feedst chemicals (note free (3) Identify by number the	i, rail car, tan the approxim ocks (includir uency if not u ne points of re	steps and chemical conversions. Ir ik truck, etc.). nate weight (by kg/day or kg/batch on ng reactants, solvents, catalysts, etc. used daily or per batch.). elease, including small or intermitte ne step, assign a second release nu	on a 100% nc.), and of a	ew chemical su I products, recy to the environn	bstance basis cle streams, a	s), and entry point and wastes. Inclu	of all starting de cleaning			





Diagram of the major unit energion stone	Confidential
Diagram of the major unit operation steps.	
Enter Attachment filename for Part II, Section A, 1. d.	
Enter Attachment menanie for Part II, Section A, T. u.	

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			PMN F	Dane O					NON-CB	I SUBMISSIO	NC
	art II	HUMAN EXPOSURE A			AL REL	EAS	SE Coi	ntin	ued		
		SITES CONTROLLED B							<u></u>		
The information on pages	9 an	d 9a refer to consolidated chem	nical numl	per(s):	1	2	3		4	5 🔲 (6
substance, number of wo (1) Describe the adsubstance. (2) Mark (X) this composed (3) Describe any population (4) and (6) Indicate you (5) Indicate the part of a mixture (7) Mark (X) this composed (3) Estimate the moment (9) Mark (X) this composed (10) and (11) Estimate	olumn rotect rour w ysical re) at lumn aximu olumn te the	u must make separate confidentic exposed, and duration of activity as (i.e. bag dumping, tote filling, until fentry in column (1) is confidentive equipment and engineering collilingness to have the information form(s) of the new chemical substitute time of exposure. If entries in columns (3) and (5) a sum number of workers involved in it entry in column (8) is confident emaximum duration of the activity if entries in columns (10) and (1)	. Mark (X) nloading d tial busines ontrols use provided stance (e.g. re confider each activitial busines for any w	the "Confidentiarums, sampling as information (ed to protect wo in column (3) og., solid: crystal attal business invity for all sites as information (orker in hours pidential busines	al" box nex y, cleaning CBI). orkers. r (5) bindir , granule, nformation combined CBI). per day an	t to a , etc. ng. powd (CBI	er, or dust	u cla vorke	im as confiders may be e	ential. xposed to the	Э
Worker activity (i.e., bag dumping, filling	СВІ	Protective Equipment/	Binding Option	Physical form(s)	Binding Option	СВІ	# of Workers	CBI	Maximum	Duration	СВІ
drums) (1)	(2)	Engineering Controls (3)	Mark (X) (4)	& % new substance (5)	Mark (X) (6)	(7)	Exposed (8)	(9)	Hrs/Day (10)	Days/Yr (11)	(12)
						9					
			2								
		60°									
6											

Mark (X) this box if the data continues on the next page.

Enter Attachment filename for Part II, Section A on the bottom of page 9a.



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PMN Page 9a

- 3. Environmental Release and Disposal -- You must make separate confidentiality claims for the release number and the amount of the new chemical substance released and other release and disposal information. Mark (X) the "Confidential" box next to each item you claim as confidential.
 - (1) -- Enter the number of each release point identified in the process description, part II, section A, subsection 1d(3).
 - (2) -- Estimate the amount of the new substance released (a) directly to the environment or (b) into control technology (in kg/day or kg/batch).
 - (3) -- Mark (X) this column if entries in columns (1) and (2) are confidential business information (CBI).
 - (4) -- Identify the media (stack air, fugitive air (optional-see Instruction Manual), surface water, on-sité or off-site land or incineration, POTW, or other (specify)) to which the new substance will be released from that release point.
 - (5) -- a. Describe control technology, if any, and control efficiency that will be used to limit the release of the new substance to the environment. For releases disposed of on land, characterize the disposal method and state whether it is approved for disposal of RCRA hazardous waste. On a continuation sheet, for each site describe any additional disposal methods that will be used and whether the waste is subject to secondary or tertiary on-site treatment. b. Estimate the amount released to the environment after control technology (in kg/day).
 - (6) -- Mark (X) this column if entries in columns (4) and (5) are confidential business information (CBI).
 - (7) -- Identify the destination(s) of releases to water. Please supply NPDES (National Pollutant Discharge Elimination System) numbers for direct discharges or NPDES numbers of the POTW (Publicly Owned Treatment Works). Mark (X) if the POTW name or NPDES # is confidential business information (CBI).

Release Number	Amount of New Substance Released		СВІ	Medium of release e.g. Stack air	Control technology optionally	iciency dat	nay wish to a)	СВІ	
(1)	(2a)	(2b)	(3)	(4)	(5a)		Binding Mark (X)	(5b)	(6)
						5			
					•				
				5					
			X						
		Ô							
		7							
Mark (X) this box if the data continues on the next page.									
(7) Mark	(7) Mark (X) the destination(s) of releases to water. NPDES#							S#	CBI
	POTWpro name(s)	vide							
	Navigable v - provide na	waterway- ame(s)							
	OtherSpe	cify							
	Enter Attachment filename for Part II, Section A.								

NON-CBI SUBMISSION

Part II HUMAN EXPOSURE AND ENVIRONM		AL RE	LE	ASE -	- Cont	inue	d			
Section B INDUSTRIAL SITES CONTROLLED BY OTHERS	_	1					1			1
The information on pages 10 and 10a refer to consolidated chemical number(s):	ا مارده	1	_	2	3		4	5	<u> </u>	6
Complete section B for typical processing or use operations involving the new chemical complete this section for operations outside the U.S.; however, you must report any proceed a separate section B for each type of processing, or use operation involving more than one site describe the typical operation common to these sites. Identify additional to the section as confidential. (1) Diagram the major unit operation steps and chemical conversions, including pails, 55 gallon drums, rail cars, tank trucks, etc). On the diagram, identify (2) Either in the diagram or in the text field 1(b) below, provide the identity, the chemical substance basis), and entry point of all feedstocks (including reastreams, and wastes. Include cleaning chemicals (note frequency if not us (3) Either in the diagram or in the text field 1(b) below, identify by number the environment of the new chemical substance. (4) Please enter the # of sites (remember to identify the locations of these sites)	ocessing ocessing the network of the network of the network of the network of the network ocessing oce	rance at tance are tance at tance and tance are tance and tance are tance at tance a	sites e act ical s a con .g. {} age a oriefly weig ts an r bate ustion	s you divities and training tr	on not co after impose. If the on shee specific insport of the each kg/day of ysts, etc.	e sam t. inform ontain h work or kg/b c) and	ee the e opera	hat you ecify - e.gity. n an 100 ucts, rec	ens Ma erform claim a g. 5 ga % new ycle	to inual. ed at as
1(b). (Optional) This space is for a text description to clarify the diagram above.							Con	fidential		
Enter Attachment filename for Part II. Section B on the bottom of page 10a.					-					$\neg \Box$



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2. Worker Exposure/Environmental Release

- (1) -- From the diagram above, provide the letter for each worker activity. Complete 2-8 for each worker activity described.
- (2) -- Estimate the number of workers exposed for all sites combined.
- (4) -- Estimate the typical duration of exposure per worker in (a) hours per day and (b) days per year.
- (6) -- Describe physical form of exposure and % new chemical substance (if in mixture), and any protective equipment and engineering controls, if any, used to protect workers.
- (7) -- Estimate the percent of the new substance as formulated when packaged or used as a final product.
- (9) -- From the process diagram above, enter the number of each release point. Complete 9-13 for each release point identified.
- (10) -- Estimate the amount of the new substance released (a) directly to the environment or (b) into control technology to the environment (in kg/day or kg/batch).
- (12) -- Describe media of release i.e. stack air, fugitive air (optional-see Instructions Manual), surface water, on-site or off-site land or incineration, POTW, or other (specify) and control technology, if any, that will be used to limit the release of the new substance to the environment.
- (14) -- Identify byproducts which may result from the operation.
 - (3), (5), (8), (11), (13) and (15) -- Mark (X) this column if any of the proceeding entries are confidential business information (CBI).

Letter of Activity	# of Workers Exposed	СВІ	Durat Expo	ion of sure	СВІ	Protecti	ve Equip./Engineering Controls/Physical Form	% new substance	% in Formulation	СВІ
(1)	(2)	(3)	(4a)	(4b)	(5)		(6)	(6)	(7)	(8)
							6			
							• • • • • • • • • • • • • • • • • • • •			
							10,			
Release Number	Amount of New Substance Released CBI				sed	СВІ	Media of Release & Contro	l Technology		СВІ
(9)	(10	(10a) (10b) (11)					(12)		(13)	
										` ′
				K						
			*)					
			3		<u>)</u>					
		7			<u>)</u>					
			3		<u> </u>					
	Mark (X) this		ne data co		n the nex	xt page.				
(14) Byp			ne data co		n the ne.	xt page.			(15) CBI	



NON-CBI SUBMISSION

OPTIONAL POLLUTION PREVENTION INFORMATION

To claim information in the following section as confidential, bracket (e.g. {}) the specific information that you claim as confidential.

In this section you may provide information not reported elsewhere in this form regarding your efforts to reduce or minimize potential risks associated with activities surrounding manufacturing, processing, use and disposal of the PMN substance. Please include new information pertinent to pollution prevention, including source reduction, recycling activities and safer processes or products available due to the new chemical substance. Source reduction includes the reduction in the amount or toxicity of chemical wastes by technological modification, process and procedure modification, product reformulation, and/or raw materials substitution. Recycling refers to the reclamation of useful chemical components from wastes that would otherwise be treated or released as air emissions or water discharges, or land disposal. Quantitative or qualitative descriptions of pollution prevention, source reduction and recycling should emphasize potential risk reduction in addition to compliance with existing regulatory requirements. The EPA is interested in the information to assess overall net reductions in toxicity or environmental releases and exposures, not the shifting of risks to other media (e.g., air to water) or nonenvironmental areas (e.g., occupational or consumer exposure). To the extent known, information about the technology being replaced will assist EPA in its relative risk determination. In addition, information on the relative cost or performance characteristics of the PMN substance to potential alternatives may be provided.

Describe the expected net benefits, such as

- (1) an overall reduction in risk to human health or the environment:
- (2) a reduction in the generation of waste materials through recycling, source reduction or other means;
- (3) a reduction in the use of hazardous starting materials, reagents, or feedstocks;
- (4) a reduction in potential toxicity, human exposure and/or environmental release; or

(5) the extent to which the new chemical substance may be a substitute for an existing substance that poses a greater overall risk to huma health or the environment.	an	
Information provided in this section will be taken into consideration during the review of this substance. See PMN Instructions Manand Pollution Prevention Guidance manual for guidance and examples.	nual	j
Aot for Sulphila		
Enter Attachment filename for Pollution Prevention Page 11.		l



PMN2019P12

PMN Page 12

Part III -- LIST OF ATTACHMENTS

Attach continuation sheets for sections of the form, test data and other data (including physical/chemical properties and structure/activity information), and optional information after this page. Clearly identify the attachment and the section of the form to which it relates, if appropriate. Number consecutively the pages of any paper attachments. In the Number of Pages column below, enter the inclusive page numbers of each attachment for paper submissions or enter the total number of pages for each attachment for electronic submissions. Electronic attachments can be identified by filename.

Mark (X) the "Confidential" box next to any attachment name or filename you claim as confidential. Read the Instructions Manual for guidance on how to claim any information in an attachment as confidential. You must include with the sanitized copy of the

notice form a sanitized version of any attachment in which you claim information as confidential.

#	Attachment Name	Attachment Filename	Number of Pages	Associated PMN Section Number	СВ
				. 0	
			C	2	
			1	7	
		6			
	XO.				
•	1				



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PHYSICAL AND CHEMICAL PROPERTIES WORKSHEET										
The information on this page refers to chemical number(s): 1 2 3 4 5 6										
To assist EPA's review of physical and chemical properties data, please complete the following worksheet for data you provide and include it in the notice. Identify the property measured, the value of the property, the units in which the property is measured (as necessary), and whether or not the property is claimed as confidential. Give the attachment number (found on page 12) in column (b). The physical state of the neat substance should be provided. These measured properties should be for the neat (100% pure) chemical substance. Properties that are measured for mixtures or formulations should be so noted (% PMN substance in). You are not required to submit this worksheet; however, EPA strongly recommends that you do so, as it will simplify the review and ensure that confidential information is properly protected. You should submit this worksheet as a supplement to your submission of test data. This worksheet is not a substitute for submission of test data.										
Property (a)		Unit	Mark X if Provided	Attachment Number (b)	Value (c)	Measured or Estimate (M or E)	CBI Mark (X) (d)			
Physical state of neat sub			(solid) (liquid)	(gas)						
Vapor Pressure @ Temperature		°C				Torr				
Density/relative density						g/cm3				
Solubility					15					
@ Temperature		°C				g/L				
Solvent										
Solubility in Water @ Temperature		°C				g/L				
Melting Temperature						°C				
Boiling / Sublimation temperature @		Torr				°C				
Spectra		4								
Dissociation constant	, (
Octanol / water partition c	oefficient									
Henry's Law constant										
Volatilization from water										
Volatilization from soil										
pH@ concentration										
Flammability										
Explodability										
Adsorption / Coefficient										
Particle Size Distribution										
Other - Specify										

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